

DELTA-SIGMA MODULATOR SYSTEM AND METHOD**ABSTRACT OF THE DISCLOSURE**

The invention discloses a system and method for improving the out-of-band noise response of a multi-order delta-sigma modulator. The system and method includes programmable delta-sigma modulators which may be programmed to vary the reference signals at each modulator stage subsequent to the first stage relative to the reference signal of the first modulator stage. The resulting signal output will then typically exhibit the enhanced noise suppression characteristics of a dithered signal without the added circuitry and power required of a dithering apparatus.